

Infrastructure Construction Plan Checklist and Guidelines

Public Works Department Transportation Services and Stormwater One Exchange Plaza Suite 304, Raleigh, NC 27601 phone 919-516-2155 fax 919-516-2681

Transportation Services 919-516-2155	All handicap ramps shown and labeled and are in proper place as shown on Engineering Standard, STD #20.11
Please initial each listing as completed.	Typical sections are shown with pavement designs, use STD
All sheets 24" x 36	#20.31 and 20.32 for all proposed residential, collector, and commercial streets
Vicinity Map no smaller 1" = 500' with north arrow	Driveways and parking lots shall be shown on plan view
Cover sheet includes general notes, owner's name, telephone number, and mailing address	Plan view show proposed and existing curb and gutter, storm sewers, drainage structures driveway pipes, water mains,
Cover sheet includes subdivision, site plan, or group housing case number (e.g. S-1-05)	sanitary sewer mains, etc. Street lighting design and layout including specifications
Show all information required on the preliminary plan	Profile view shall show existing right and left right of way and centerline elevations as well as proposed centerline
North arrow on all applicable sheets	
Public improvement quantities on front cover sheet	Plans shall bear the note: "All construction to be in accordance with all City of Raleigh standards and
Title blocks on all sheets	specifications and NCDOT, if applicable."
Sealed by professional engineer, landscape architect, or surveyor as needed	Provide all construction details where applicable
Show and locate all sidewalks and opposing driveways surrounding the site	Provide any required traffic signage, lane striping or other traffic control devices
Right of way and pavement widths, street widths, sidewalk,	Overview map for phased projects matches approved preliminary plan
curb and gutter, medians, median openings, curb radii labeled and dimensioned	Any other information required by the Public Works Director to determine the safety and effectiveness of improvements
Existing property irons labeled "E.I.P"	made in the public right of way and easements
Centerline profile for existing streets shown for a minimum of 300 feet from the end of proposed streets, or as needed to	Centerline profile shown for a minimum of 100 feet from the end of proposed streets
establish adequate sight distance triangles	1/4 inch slope across entire sidewalk and planting strip area
Lot numbers, driveways, and parking lots shown on plan view	Stone under curb and gutter when depth of stone and aspha is 10" or greater for all public streets
Plan view shows all actual street names, if known. State road number shall be shown, if applicable	Private streets are labeled and include private street
Plan view indicates whether existing streets are asphalt,	inspection statement and any necessary access easements
concrete, gravel or dirt	Slope easements shown, labeled, and dimensioned
Stations beginning 0+00 labeled every 100' feet on plan and profile view	Cul-de-sacs are dimensioned. (Back of curb radius and r/w radius)
Match lines between sheets should be shown	Existing and proposed right of way dimensioned and labeled
Complete street curve data shall be shown on plan and profile sheet to include VPC sta., VPI sta., VPT sta., VPC elv., VPI elv., VPT elv., L, K, A, PC sta., PT sta., L, R, Delta, Chord Distance, and Chord Bearing	Sight triangles to be shown and labeled including any structures within them. Add note: "Within the sight triangles shown on this plan, no obstruction between two (2) feet and eight (8) feet in height above the curb line elevation or the nearest traveled way, if no curbing exists
Driveway permit from NCDOT, if access is on a State maintained road	Existing and proposed parking areas, bay dimensions aisle dimensions
Proper location of sidewalk (BOC to right of way < 12.5' sidewalk located 1.0' inside right of way, BOC to right of way > 12.5' sidewalk located 4.0' inside right of way)	Vehicular stacking space areas, length of queue, storage space required per stacked vehicle including aisle width, stall depth, stall width

	Cross section and diagram of each floor of a parking structure	A copy of the Wake County Soil Survey Map with the site	
	Internal traffic circulation details	located on it	
	Corner clearance has been verified and a note placed on	Show all wetlands and Neuse buffer limits	
	the plans stating "Minimum corner clearance from curb line	Show backwater elevations for new stream crossings	
	of intersecting streets shall be at least twenty (20) feet from the point of tangency" "Private Street Inspection Statement" The construction	Show stormwater network, including inlets, culverts, swales ditches and channels (top elevation, invert elevation, pipes size and slope)	
	inspection of private streets within cluster units, condominiums, group housing, townhouse developments	Stream crossings have been approved by the required agen	тсу
	and mobile home parks submitted for city approval is the responsibility of the owner/developer. Copies of certified	Public Utilities 919-857-4540	
	inspection reports involving sub grade/aggregate base proof rolls, aggregate base and asphalt densities and thickness, and other pertinent information must be submitted to the City's Engineering Inspections Manager at P.O. Box 590, Raleigh, NC 27602 or faxed to (919) 831-6339. Contact Larry Anderson at (919) 831-6810 to obtain details of the above requirements. This note must be on all construction mylars	All elevations shall be shown of the profile view as it relates water main, sanitary sewer mains, etc.	i to
		Existing utility lines shall be shown and labeled on plan view by dashed lines	N
	containing private streets before mylar signatures	Proposed utility lines shall be shown by solid lines	
	are finalized For re-submittals, all comments have been addressed or	Plans show final proposed locations and dimensions of all water and sanitary sewer lines	
	discussed with the reviewer.	Include stubs to each property line for water and sanitary sewer	
Sto	rmwater 919-516-2155	Invert elevations for all manholes and profiles of sanitary sewer lines	
	One copy of complete drainage calculations including one copy of the drainage area map and catch basin/gutter flow calculations	Plan view shows all existing and proposed underground util layout, including fiber optic, electric, gas and cablevision facilities located on the right of way	lity
	100-year floodplain boundaries and elevations shown on all plans at profiles where applicable	Existing water meter boxes and sewer cleanouts shown and labeled as "exist w. conn." and "exist s. conn.". Connection number should be given for existing water connections	
	Class and location of rip-rap and all creek location/relocation shown on plan view	Existing paved roads shall be bored, if possible.	
	Dimensions and locations of all permanent erosion control measures shown on all applicable plan view sheets	Smooth steel encasement pipe shall be shown on the plan view and profile view including size and wall thickness	
	All existing and proposed private drainage easements shown on all applicable sheets	4", 6", and 8" water lines shall be bored under driveways when possible	
	All single pipes equal to or larger than 48" diameter and all multiple pipes have headwalls shown and labeled on upstream end and a headwall or FES on the downstream end	 All existing and proposed sanitary sewer easements shown on all applicable sheets 	1
	Existing and proposed contours of intervals at five feet or less, referred to NAVD 1988	Planning 919-516-2626	
	Label and show drainage swales, ditches, channels and water courses, and direction of flow	Plans show approved or proposed phase as shown on	
	Impoundment or retention/detention structures for stormwater, if required	preliminary plan Encroachment agreements submitted, if required	
	Show location of discharge points, velocity dissipation measures	Lot layout and street locations as approved on preliminary plan	
	Show location of existing and proposed storm sewer and inlet structures and culverts	Preliminary plan approved. If preliminary plan may be approved administratively, construction drawings may be	ce
	Show floodway and floodway fringe areas. Flood hazard soil boundaries, flood storage area easements and regulatory flood protection elevations and indicate FEMA map/and/or flood study numbers	submitted prior to approval of preliminary plan, if concurrence by the Planning Department and member of Development Plans Review Group	
	Provide summary of water quality/quantity calculations	Name - Engineer/Architect/Surveyor Date	